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Data Sheet (Cat.No.TMPY-00936)



TNF alpha Protein, Human, Recombinant

General Information

Synonyms: TNFA;TNFSF2;TNF-alpha;TNF-α;DIF;tumor necrosis factor

The Human TNF-α soluble form (NP_000585.2) (Val 77-Leu 233) was expressed, with an initial

Met at the N-terminus.

Species: Human

Expression Host: E. coli

Accession: P01375

Molecular Weight: 17.5 kDa (predicted)

QC Testing

Biological Activity:

1.Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of

the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 3-30 pg/mL.

2.Captured Adalimumab on Anti-human IgG Fc via CM5 Chip can TNF- α with an affinity

constant of 0.2843 nM as determined in a SPR assay(Routinely tested).

Purity: \geq 95 % as determined by SDS-PAGE. \geq 95 % as determined by SEC-HPLC.

Endotoxin: < 5 EU/mg of the protein as determined by the LAL method.

Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically,

Formulation: a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a

protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two

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receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment.TNF-alpha Protein & AntibodyCancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

Reference

Hector J, et al. (2007) TNF-alpha alters visfatin and adiponectin levels in human fat. Horm Metab Res. 39(4): 250-5. Berthold-Losleben M, et al. (2008) The TNF-alpha System: Functional Aspects in Depression, Narcolepsy and

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